(51) International Patent Classification 7 : **H04L 29/12, 12/46**	(11) International Publication Number: **WO 00/27092**
A1	(43) International Publication Date: 11 May 2000 (11.05.00)

(21) International Application Number: PCT/CA99/01012

(22) International Filing Date: 29 October 1999 (29.10.99)

(30) Priority Data:
2,252,207   30 October 1998 (30.10.98)   CA

(71) Applicant (for all designated States except US): EICON TECHNOLOGY CORPORATION [CA/CA]; 9800 Cavendish Blvd., Montreal, Québec H4M 2V9 (CA).

(72) Inventors; and
(75) Inventors/Applicants (for US only): MOINEAU, Gilbert [CA/CA]; 3255 Dalbé–Viau, Lachine, Québec H8T 3N3 (CA). DUPLAIX, Jérôme [CA/CA]; 4850 Bellechasse, Montréal, Québec H1T 1Z4 (CA).

(74) Agents: SWABEY OGILVY RENAULT et al.; Suite 1600, 1981 McGill College Avenue, Montréal, Québec H3A 2Y3 (CA).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
  With international search report.
  Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: DNS RELAY MODULE IN A DIGITAL NETWORK MODEM
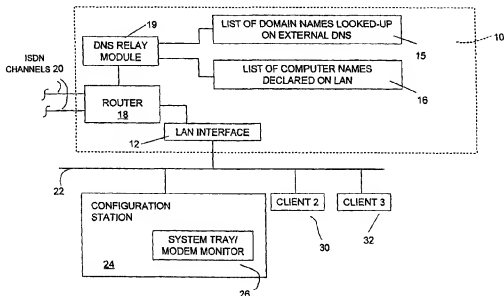
(57) Abstract

The digital network modem has a DNS Relay Module which answers requests for IP addresses using a local store of domain and host names with corresponding IP addresses and forwards the requests to an external DNS if the domain or host name requested is not stored in the local store of addresses. Also, if the numeric address requested is local and in a list of local computer names, the DNS relay module replies to the request acting as a local DNS server. This DNS relay module increases the speed of the request/reply sequence and does not automatically forward all numeric address requests to an external DNS located on a network.

JNT001433